



KEYSTONE

KEYSTONE ANILINE CORPORATION



NEROSOL

Liquid Dyes
for Stains,
Coatings & Finishes





NEROSOL

Liquid Dyes

Nerosol concentrates are specially selected dyes formulated into a solution with glycol ether solvents. They are particularly well suited for the coloration of wood and wood related finishes and coatings owing to the following properties:

- Excellent dye lightfastness*
- High color strength
- Easy to use
- Low-viscosity
- Compatibility in a wide range of solvents
- Fast drying

Please review the following comments with respect to the above listed properties.

LIGHTFASTNESS*

Most Nerosol dyes are made with a metal complex group reacted to the dye molecule. The exceptions to this are noted with an asterisk. The metal complex group significantly improves the lightfastness or resistance to fade of the product as compared to other dyes. The fastness ratings are included on the Nerosol shade card.

It should be remembered that while Nerosols have excellent lightfastness relative to dyes, they generally do not possess the fastness properties of pigments, and are therefore not recommended for exterior paint and coatings applications. Also variation in wood, overcoats such as lacquers and varnishes, and the use of UV absorbers and inhibitors can significantly alter actual lightfastness performance. The lightfastness ratings are intended to serve as a guide for relative analysis only.

COLOR STRENGTH

Nerosol dyes are true solutions, not dispersions and therefore have very little or no filterable solid matter. They are however high strength concentrates with typical dye content of 20% to 35% relative to "pure" powder. The actual dye content may vary as the product is quality controlled for color strength and not for solids content.

EASE OF USE / LOW VISCOSITY

Nerosol dyes are readily pourable, easily pumped liquid concentrates that quickly and completely dissolve in the intended solvent systems.

SOLVENT COMPATIBILITY

All Nerosol dyes have good compatibility with a wide variety of solvents. They have complete solubility with alcohols, glycols, glycol ethers and water. Additionally, they can be used in conjunction with formulations containing ketone, ester and aromatic solvents.

When using ketone and ester solvents some alcohol or glycol ether should be incorporated into the formulation to help stabilize the dye solution. We recommend a minimum of 15-20% alcohol or glycol ether in this case.

In solvent recipes containing aromatic or aliphatic solvents, an alcohol or glycol ether solvent must be present in the formulation in higher concentrations than any combination of aromatic or aliphatic solvent. Ideally there should be a 2:1 ratio of alcohol or glycol ether solvent in the formulation relative to the amount of aliphatic or aromatic solvent. This is to maintain the dye in solution and prevent precipitation, seeding or color loss.

Wood stained with Nerosol dyes generally will not bleed when over-coated with most water-free finishes. In some cases, however, the dye may be attacked by particularly acidic or alkaline components of a finish, resulting potentially in color shift or color loss. This applies also in the case of peroxide containing finishes (polyesters). It is therefore always recommended that tests be conducted in the laboratory to determine suitability of the dye / stain recipes with particular resin over-coat.

FAST DRYING / FLASH POINT

Nerosol dyes are relatively fast drying yet they have been formulated with flash points that allow them to be shipped as non-flammable in accordance with IATA and U.S. DOT regulations.

Nerosol CRN dyes are high flash formulations developed for global requirements. Nerosol CRN dyes can be shipped and labeled as non-flammable. Nerosol CRN dyes are the same shade and strength as the Nerosol US Series.

Nerosol US (Universal System) are formulated in lower flash solvent and glycol ether systems for added flexibility in final coating and finishes recipes. Nerosol US dyes are labeled as flammable.

STORAGE STABILITY

At room temperature and when kept sealed in original containers Nerosol dyes should remain stable for a minimum of 1 year. If the dyes are exposed to prolonged cold or freezing conditions, some gelling or precipitation of the dye may occur. This can generally be reversed by heating the dye to approximately 100° F (38° C) and applying agitation.

The information provided above regarding the application of Nerosol dyes is only of a general nature. The data are not intended as specifications and as mentioned previously laboratory tests should always be conducted to determine compatibility and suitability of the dyes in the user's particular formulation. Wide variations of recipes, application methods and wood used from customer to customer mean that the information is intended as a guide only.

Generally speaking however, Nerosol dyes are suitable for all types of softwood and hardwood commonly used in the furniture and flooring industry. They are effective in coloring difficult hardwoods, such as beech, evenly. Wood stains produced using Nerosol dyes may be applied in a variety of ways including by spray, roller, wiping and dip processes typically used.

ISO CERTIFIED



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For more information or samples call: **1-800-522-4DYE**

In Europe call: **44 1484 341466**

www.dyes.com

NEROSOL



Nerosol Yellow 2GN*
830-540-43 Lightfastness: 5-6



Nerosol Sap Green D*
430-450-43 Lightfastness: 5



Nerosol Yellow R
830-502-43 Lightfastness: 6-7



Nerosol Golden Brown Y
330-451-42 Lightfastness: 6-7



Nerosol Orange GX
530-503-41 Lightfastness: 6-7



Nerosol Brown 4GLM
330-506-41 Lightfastness: 6-7



Nerosol Red GX
630-501-44 Lightfastness: 6-7



Nerosol Brown 4RM
330-504-45 Lightfastness: 6-7



Nerosol Red B
630-502-44 Lightfastness: 6-7



Nerosol Dark Brown 2R
330-503-43 Lightfastness: 6-7



Nerosol Bordeaux V
630-452-44 Lightfastness: 5-6



Nerosol Brown MM
330-502-43 Lightfastness: 6-7



Nerosol Violet B
730-409-43 Lightfastness: 5



Nerosol Dark Brown Y
330-452-42 Lightfastness: 6-7



Nerosol Royal Blue R*
230-501-42 Lightfastness: 4-5



Nerosol Black J
130-502-43 Lightfastness: 7



Nerosol Navy N
230-502-43 Lightfastness: 6-7

NEROSOL CRN



Nerosol Yellow CRN
830-502-48 Lightfastness: 6-7



Nerosol Bordeaux CRN
630-452-48 Lightfastness: 5-6



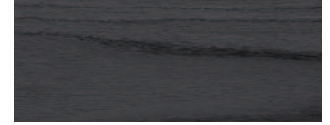
Nerosol Orange CRN
530-501-48 Lightfastness: 6-7



Nerosol Brown CRN
330-503-48 Lightfastness: 6-7



Nerosol Red CRN
630-502-48 Lightfastness: 6-7



Nerosol Black CRN
130-502-48 Lightfastness: 7

NEROSOL US



Nerosol Yellow US
830-502-49 Lightfastness: 6-7



Nerosol Bordeaux US
630-452-49 Lightfastness: 5-6



Nerosol Orange US
530-501-49 Lightfastness: 6-7



Nerosol Brown US
330-503-49 Lightfastness: 6-7



Nerosol Red US
630-502-49 Lightfastness: 6-7



Nerosol Black US
130-502-49 Lightfastness: 7

Dye Concentration:
20 gms./liter 5 -1/3 oz./gal.

* Lightfastness — Most Nerosol dyes are made with a metal complex group reacted to the dye molecule. The exceptions to this are noted with an asterisk.

The color shades illustrated here are designed to give a general idea of the color characteristics of each dye, not a guarantee of how the dye will look in a particular formulation. Specific applications may give a different variation of the actual color.

- In addition to supplying the most comprehensive line of colorants available, at **Keystone Aniline Corporation** we are committed to providing our customers with the best technical information available. Call **1-800-522-4DYE** for samples or technical assistance.
- Please give us a call or visit our web site at **www.dyes.com**
- As a Keystone customer, you will have direct access to professionals who can answer technical questions and provide timely assistance. Please feel free to contact us for samples of our dyes, technical specifications, or for formulating assistance.

DISCLAIMER: These data were obtained by testing according to our methods, with any necessary test deviations. Other test methods may give different results. Incoming evaluations, by the customer is therefore unconditionally recommended. The use and application of our colorants and information included is without any warranty, whether expressed or implied, verbal or written. No statements of recommendation contained in this product literature is to be construed as inducement to infringe on any relevant patent now or hereafter in existence.

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